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03500.102556.

PATENT APPLICATION



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:)
:)
KAZUHIRO BAN, et al.)
:)
Application No.: 10/555,383)
:)
Int'l. Filing Date: January 25, 2005)
:)
For: KIT FOR IMMOBILIZING)
ORGANIC SUBSTANCE,)
ORGANIC SUBSTANCE-)
IMMOBILIZED STRUCTURE,)
AND MANUFACTURING)
METHODS THEREFOR)

February 5, 2007

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents, other than the U.S. patent documents, are enclosed. Also enclosed is an English-language abstract for the listed Japanese document.

The following documents are discussed at the following pages of the specification:

<u>Documents</u>	<u>Page(s)</u>
Japan 6-3317	6
A. Nyamsi Hendji, et al., "Covalent immobilization of glucose oxidase on silanized platinum microelectrode for the monitoring of glucose", Sensors and Actuators B, Vols. 15-16, 1993	7
U.S. Patent No. 6,225,131	10
U.S. Publication No. 2002/0106702	10
Joseph A. Francisco, et al., "Production and fluorescence-activated cell sorting of <i>Escherichia coli</i> expressing a functional antibody fragment on the external surface", Proceedings of the National Academy of Sciences, Vol. 90, November 1993	50
S. Pistor, et al., "Expression of Viral Hemagglutinin on the Surface of <i>E. coli</i> ", Klin Wochenschr, Vol. 66, 1988	50
Patrick Fuchs, et al., "Targeting Recombinant Antibodies to the Surface of <i>Escherichia Coli</i> : Fusion to a Peptidoglycan Associated Lipoprotein", Bio/Technology, Vol. 9, December 1991	50
Alain Charbit, et al., "Versatility of a vector for expressing foreign polypeptides at the surface of Gram-negative bacteria", Gene, Vol. 70, 1988	50
Andrew Bradbury, et al., "Use of Living Columns to Select Specific Phage Antibodies", Bio/Technology, Vol. 11, December 1993	50
Lisbeth Hedegaard, et al., "Type 1 fimbriae of <i>Escherichia coli</i> as carriers of heterologous antigenic sequences", Gene, Vol. 85, 1989	50
Maurice Hofnung, "Expression of Foreign Polypeptides at the <i>Escherichia coli</i> Cell Surface", Methods in Cell Biology, Vol. 34, 1991	50

Thomas Klauser, et al., "Extracellular transport of cholera toxin B subunit using <i>Neisseria</i> IgA protease β -domain: conformation-dependent outer membrane translocation", EMBO Journal, Vol. 9, 1990	50
Jamie K. Scott, et al., "Searching for Peptide Ligands with an Epitope Library", Science, Vol. 249, 1990	52
Steven E. Cwirla, et al., "Peptides on phage: A vast library of peptides for identifying ligands", Proceedings of the National Academy of Sciences, Vol. 87, August 1990	52
J. Sambrook, et al., Molecular Cloning, A Laboratory Manual, Second Edition, Cold Spring Harbor Laboratory Press, 1989	62

The Examiner's attention is also directed to the following U.S. Applications:


<u>Application No.</u>	<u>Int'l. Filing Date</u>	<u>U.S. Filing Date or 371(c) Date</u>	<u>Applicants</u>
11/592,313		11/03/2006	K. Ban M. Ogawa N. Utsunomiya H. Hashimoto M. Komatsu Y. Murayama
11/444,387		06/01/2006	S. Hatakeyama H. Shiotsuka T. Nomoto M. Kaieda
10/592,791	03/31/2005		H. Shiotsuka T. Imamura I. Kumagai
10/548,442	08/18/2004		H. Shiotsuka T. Imamura T. Nomoto M. Ogawa
10/546,404	04/30/04		T. Imamura T. Yano T. Nomoto S. Kozaki T. Honma A. Tsuchitani

This Information Disclosure Statement is being filed before the issuance of a first Office Action on the merits. Therefore, no fee under 37 C.F.R. § 1.97(c)(2) is believed due. Nevertheless, the Commissioner may charge Deposit Account No. 06-1205, should any fee be due for filing this paper.

Applicants request that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be initialed and returned indicating that such information has been considered.

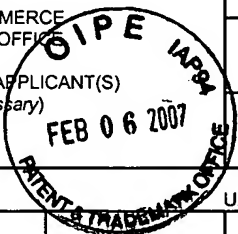
Applicants' undersigned attorney may be reached in our Costa Mesa, California office at (714) 540-8700. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,



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FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)				ATTY DOCKET NO. 03500.102556.		APPLICATION NO. 10/555,383	
				APPLICANT KAZUHIRO BAN, et al.			
				INT'L. FILING DATE January 25, 2005		GROUP	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,908,720	06/21/05	Kenmoku, et al.	430	97	
		6,869,782	03/22/05	Kenmoku, et al.	435	130	
		6,867,023	03/15/05	Honma, et al.	435	135	
		6,864,074	03/08/05	Yano, et al.	435	189	
		6,861,550	03/01/05	Honma, et al.	560	53	
		6,861,496	03/01/05	Kenmoku, et al.	528	272	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		6-3317	01/11/94	Japan			Abstract
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Andrew Bradbury, et al., "Use of Living Columns to Select Specific Phage Antibodies", Bio/Technology, Vol. 11, December 1993, pp. 1565-1569.					
		Alain Charbit, et al., "Versatility of a vector for expressing foreign polypeptides at the surface of Gram-negative bacteria", Gene, Vol. 70, 1988, pp. 181-189.					
		Steven E. Cwirla, et al., "Peptides on phage: A vast library of peptides for identifying ligands", Proceedings of the National Academy of Sciences, Vol. 87, August 1990, pp. 6378-6382.					
		Joseph A. Francisco, et al., "Production and fluorescence-activated cell sorting of <i>Escherichia coli</i> expressing a functional antibody fragment on the external surface", Proceedings of the National Academy of Sciences, Vol. 90, November 1993, pp. 10444-10448.					
		Patrick Fuchs, et al., "Targeting Recombinant Antibodies to the Surface of <i>Escherichia Coli</i> : Fusion to a Peptidoglycan Associated Lipoprotein", Bio/Technology, Vol. 9, December 1991, pp. 1369-1372.					
		Lisbeth Hedegaard, et al., "Type 1 fimbriae of <i>Escherichia coli</i> as carriers of heterologous antigenic sequences", Gene, Vol. 85, 1989, pp. 115-124.					
		A. Nyamsi Hendji, et al., "Covalent immobilization of glucose oxidase on silanized platinum microelectrode for the monitoring of glucose", Sensors and Actuators B, Vols. 15-16, 1993, pp. 127-134.					
EXAMINER				DATE CONSIDERED			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		6,858,417	02/22/05	Yano, et al.	435	189	
		6,858,367	02/22/05	Yano, et al.	430	109	
		6,855,472	02/15/05	Imamura, et al.	430	109.4	
		6,828,074	12/07/04	Yano, et al.	430	109.1	
		6,808,854	10/26/04	Imamura, et al.	430	110	
		6,803,444	10/12/04	Suzuki, et al.	528	361	
		6,686,439	02/03/04	Kenmoku, et al.	528	272	
		6,660,516	12/09/03	Imamura, et al.	435	252.8	
		6,649,381	11/18/03	Honma, et al.	435	135	
		6,586,562	07/01/03	Honma, et al.	528	361	
		6,479,621	11/12/02	Honma, et al.	528	361	
		6,472,191	10/29/02	Yano, et al.	435	189	
		6,319,706	11/20/01	Kawaguchi, et al.	435	293.1	
FOREIGN PATENT DOCUMENTS							
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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Maurice Hofnung, "Expression of Foreign Polypeptides at the <i>Escherichia coli</i> Cell Surface", Method in Cell Biology, Vol. 34, 1991, pp. 77-105.					
		Thomas Klauser, et al., "Extracellular transport of cholera toxin B subunit using <i>Neisseria</i> IgA protease β -domain: conformation-dependent outer membrane translocation", EMBO Journal, Vol. 9, 1990, pp. 1991-1999.					
		S. Pistor, et al., "Expression of Viral Hemagglutinin on the Surface of <i>E. coli</i> ", Klin Wochenschr, Vol. 66, 1988, pp. 110-116.					
		J. Sambrook, et al., Molecular Cloning, A Laboratory Manual, Second Edition, Cold Spring Harbor Laboratory Press, 1989, p. 5.72.					
		Jamie K. Scott, et al., "Searching for Peptide Ligands with an Epitope Library", Science, Vol. 249, 1990, pp. 386-390.					
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		6,225,131	05/01/01	van Damme, et al.	436	524	
		6,096,530	08/01/00	Kato, et al.	435	253.3	
		6,017,746	01/25/00	Imamura, et al.	435	252.1	
		6,004,772	12/21/99	Imamura, et al.	435	34	
		5,993,658	11/30/99	Kato, et al.	210	611	
		5,962,305	10/05/99	Mihara, et al.	435	262.5	
		5,945,331	08/31/99	Kozaki, et al.	435	262	
		5,863,789	01/26/99	Komatsu, et al.	435	262	
		5,854,059	12/29/98	Kozaki, et al.	435	262	
		5,807,736	09/15/98	Kozaki, et al.	435	262.5	
		5,803,664	09/08/98	Kawabata, et al.	405	128	
		5,693,527	12/02/97	Imamura	435	262	
		5,679,568	10/21/97	Imamura, et al.	435	262.5	
		5,665,597	09/09/97	Imamura, et al.	435	253.3	
		2006/0183235	08/17/06	Hashimoto, et al.	436	86	
		2006/0115861	06/01/06	Shiotsuka, et al.	435	7.9	
		2004/0067576	04/08/04	Honma, et al.	435	252.34	
		2003/0170716	09/11/03	Yano, et al.	435	6	
		2002/0106702	08/08/02	Wagner, et al.	435	7.9	

FOREIGN PATENT DOCUMENTS							
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